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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/785,332	02/24/2004	Delton R. Thompson	55135US011	8759
32692 3M INNOVAT	7590 07/30/2007 TIVE PROPERTIES COM	EXAMINER		
PO BOX 33427			YOON, TAE H	
ST. PAUL, MN 55133-3427			ART UNIT	PAPER NUMBER
			1714	
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•		·	NOTIFICATION DATE	DELIVERY MODE
			07/30/2007	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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	Application No.	Applicant(s)		
	10/785,332	THOMPSON ET AL.		
Office Action Summary	Examiner	Art Unit		
·	Tae H. Yoon	1714		
The MAILING DATE of this communication appeariod for Reply	ears on the cover sheet with the c	orrespondence address		
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailling date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).		
Status	,			
Responsive to communication(s) filed on <u>09 Jules</u> This action is FINAL . 2b)⊠ This 3)□ Since this application is in condition for allowant closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro			
Disposition of Claims				
4) □ Claim(s) 1-20 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) □ Claim(s) 1,2 and 7-13 is/are allowed. 6) □ Claim(s) 3-6 and 14-20 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or	vn from consideration.			
Application Papers				
9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction of the original original contents are corrected to by the Examiner or the contents are contents as a content or the content	epted or b) objected to by the did drawing(s) be held in abeyance. Section is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 				
Attachment(s)				
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate		

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The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 3-6 and 14-20 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The recited "and with proviso that said anion is organic or fluoroorganic when said catuon is a metal" in claims 3-6 is redundant and confusing since the amended claims do not have a metal as a canion.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 4, 16 and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Burnie et al (US 3,766,123) in view of Mueller (US 3,968,066).

Burnie et al teach nethod of rendering hydrophobic the surface of am aircraft windshoeld by applying a composition comprising a cationic amino chemical (quaternary ammonium compound) and trichlorotrifluoroethane in abstract. Said trichlorotrifluoroethane meets the instant fluorochemical repellent, and said cationic amino chemical containing an organo onium cation is taught at col. 4, lines 58-73.

The instant invention further recites different anions for said cationic amino chemical of Burnie et al. However, the instant anions for said cationic amino chemical

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are well known in the art as taught by Mueller, col. 2, lines 16-67 wherein fluoride, alkylsulfate and sulfonate are taught. Thus, use of alkane- or aryl- sulfonate would be obvious since said sulfonate encompasses various sulfonates.

It would have been obvious to one skilled in the art a the time of invention to utilie the art well known quaternary ammonium compound having the instant anion of Mueller in Burnie et al since Burnie et al teach employing a quaternary ammonium compound and since use of a quaternary ammonium compound having the instant anion in water-repelling composition, and thus making a surface of a substrate hydrophobic is well known practice as taught by Mueller absent showing otherwise.

Claims 7-13 are allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tae H. Yoon whose telephone number is (571) 272-1128. The examiner can normally be reached on Mon-Thu.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vasu Jagannathan can be reached on (571) 272-1119. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Tae H Yooh

Primary Examiner

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THY/July 23, 2007